PPPPPPPP	PPP	AAAA	AAAAA	SSSSSSSSSS	RRRR	RRRRRRRR	TTTTTTTTTTTTTTT	LLL
PPPPPPPP	PPP	AAAA	AAAAA	SSSSSSSSSSS	RRRR	RRRRRRRR	TTTTTTTTTTTTTTT	III
PPPPPPPP			AAAAA	SSSSSSSSSSS		RRRRRRRR	***********	iii
PPP	PPP	AAA	AAA	SSS	RRR	RRR	TTT	
								iii
PPP	PPP	AAA	AAA	SSS	RRR	RRR	III	rrr
PPP	PPP	AAA	AAA	SSS	RRR	RRR	III	LLL
PPP	PPP	AAA	AAA	SSS	RRR	RRR	III	LLL
PPP	PPP	AAA	AAA	SSS	RRR	RRR	TTT	LLL
PPP	PPP	AAA	AAA	SSS	RRR	RRR	TTT	LLL
PPPPPPPP		AAA	AAA	SSSSSSSS		RRRRRRRR	iii	iii
PPPPPPPP		AAA	AAA	SSSSSSSS		RRRRRRRR	iii	iii
PPPPPPPP		AAA	AAA	\$\$\$\$\$\$\$\$\$		RRRRRRRR	tit	iii
PPP	****							
			AAAAAAA	SSS	RRR	RRR	ĪIĪ	rrr
PPP			AAAAAAA	SSS	RRR	RRR	III	LLL
PPP			AAAAAAA	SSS	RRR	RRR	TTT	LLL
PPP		AAA	AAA	SSS	RRR	RRR	TTT	LLL
PPP		AAA	AAA	SSS	RRR	RRR	TTT	LLL
PPP		AAA	AAA	SSS	RRR	RRR	İİİ	III
PPP		AAA	AAA	SSSSSSSSSSS	RRR	RRR	tit	IIIIIIIIIIIII
PPP		AAA		\$\$\$\$\$\$\$\$\$\$\$\$\$	RRR	RRR		1111111111111111
			AAA				iii	
PPP		AAA	AAA	222222222	RRR	RRR	111	LLLLLLLLLLLLLL

_\$2

Sym

PASSOS PA

PAS

PAS

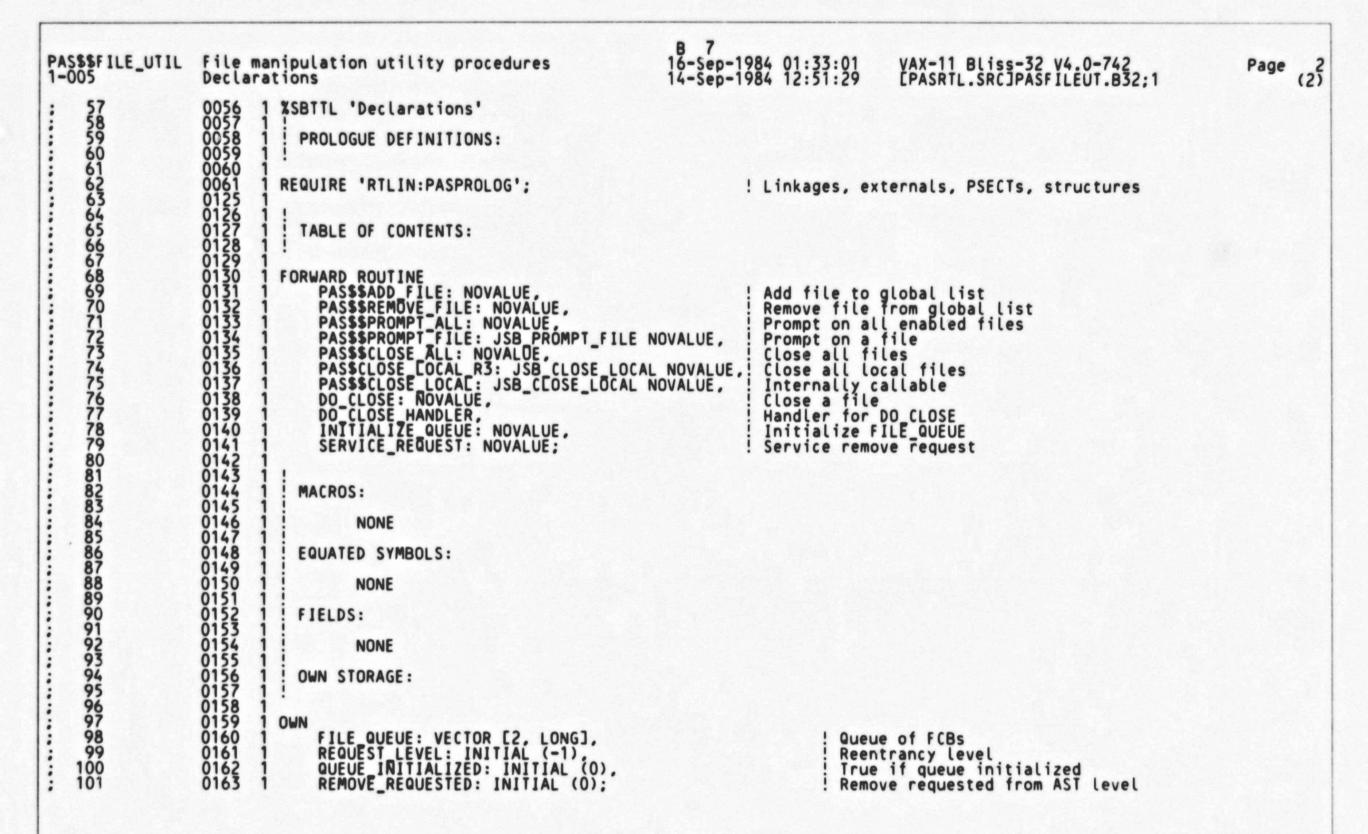
PAS

PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	\$\$\$\$\$\$\$\$\$ \$	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF		EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	UU UU UU UU UU UU UU UU UU UU UU UU UU		
PP PP PP	AA AA AA AA AA AA	\$\$ \$\$ \$\$ \$\$\$\$\$\$\$\$\$	FF FF FF		EE EE EEEEEEEEEE EEEEEEEEEE		## ## ##	
		\$						

fails to open and the OPEN is unwound. SBL 10-Jan-1983

PA 1-

Page



PA:

```
C 7
16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
PASSSFILE_UTIL
                      File manipulation utility procedures PAS$$ADD_FILE - Add file to queue
                                                                                                                             VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32:1
                                                                                                                                                                                 Page
                                  %SBTTL 'PAS$$ADD_FILE - Add file to queue'
GLOBAL ROUTINE PAS$$ADD_FILE (
    FCB: REF $PAS$FCB_CONTROL_BLOCK
    ): NOVALUE =
    1005678901234567890123456789012345678901234567890123456789
                      FUNCTIONAL DESCRIPTION:
                                              Adds a file's FCB to the queue of files.
                                     CALLING SEQUENCE:
                                             PAS$$ADD_FILE (FCB.r.r)
                                     FORMAL PARAMETERS:
                                             FCB
                                                                    File Control Block for file
                                     IMPLICIT INPUTS:
                                             FILE QUEUE
REQUEST LEVEL
QUEUE INITIALIZED
                                             REMOVE_REQUESTED
                                     IMPLICIT OUTPUTS:
                                             NONE
                                     COMPLETION STATUS:
                                             NONE
                                     SIDE EFFECTS:
                                             Inserts FCB onto head of FILE_QUEUE.
                                     SIGNALLED ERRORS:
                                             NONE
                                        BEGIN
                                        BUILTIN
                                              INSQUE:
                                        ! Initialize the queue if necessary.
                                        IF NOT .QUEUE_INITIALIZED
                                             INITIALIZE_QUEUE ();
                                        ! Increment REQUEST_LEVEL.
```

```
PASSSFILE_UTIL
                  File manipulation utility procedures PASSSADD_FILE - Add file to queue
                                                                             16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
                                                                                                          VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32;1
   REQUEST_LEVEL = .REQUEST_LEVEL + 1;
                                  ! Insert FCB onto FILE_QUEUE at head.
                                  INSQUE (FCB [FCB$L_QUEUE_FLINK], FILE_QUEUE);
                                  ! Mark the FCB as being on the queue.
                                  FCB [FCB$V_ON_QUEUE] = 1;
                                  ! Decrement REQUEST_LEVEL.
                                  REQUEST_LEVEL = .REQUEST_LEVEL - 1;
                                  ! If a remove request has been made, service it.
                                  IF .REMOVE_REQUESTED
                                      SERVICE_REQUEST ();
                                  RETURN:
                                                                                       ! End of routine PAS$$ADD_FILE
                                  END:
                                                                                          .TITLE PAS$$FILE_UTIL File manipulation utility proced
                                                                                          .IDENT \1-005\
                                                                                          .PSECT _PAS$DATA,NOEXE, PIC,2
                                                                        00000 FILE_QUEUE:
                                                            FFFFFFF
                                                                        00008 REQUEST_LEVEL:
                                                            00000000
                                                                        OOOOC QUEUE_INITIALIZED:
                                                                                           LONG
                                                                        00010 REMOVE_REQUESTED:
                                                            00000000
                                                                                                  PASSSADD FILE, PASSSREMOVE_FILE
PASSSPROMPT_ALL
PASSSPROMPT_FILE
PASSSCLOSE_ALL, PASSCLOSE_LOCAL_R3
PASSSCLOSE_LOCAL
                                                                                          .EXTRN
                                                                                          .EXTRN
                                                                                           EXTRN
                                                                                          .EXTRN
                                                                                          .PSECT
                                                                                                   PASSCODE, NOWRT, SHR, PIC, 2
```

PASSSFILE_UTIL	File manipulation util PAS\$\$ADD_FILE - Add fi		E 7 16-Sep-1984 01:33:01 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:51:29 [PASRTL.SRC]PASFILEUT.B32;1								
	0000V F8 FE 0000V	52 00 05 CF 50 A2 50 A0 05 CF	0000000° 04 04 BC 04 08	EF2002CA00A00A00A00	0004E8B600E08879B60	00000 00002 00009 0000D 00012 00018 0001D 00021 00025 00027 00028 00030		ENTRY MOVAB BLBS CALLS INCL MOVL INSQUE MOVL BISB2 DECL BLBC CALLS RET	REQUE QUEUE #0, I REQUE FCB, -68(R FCB,	ADD_FILE, Save R2 ST_EVEL, R2 INITIALIZED, 1\$ RITIALIZE_QUEUE ST_LEVEL R0 -2(R0) ST_LEVEL REQUESTED, 2\$ SERVICE_REQUEST	0215 0217 0227 0229 0235 0241 0247 0247

; Routine Size: 49 bytes, Routine Base: _PAS\$CODE + 0000

: 193 0254 1 : 194 0255 1 !<BLF/PAGE>

```
PASSSFILE_UTIL
                        File manipulation utility procedures PASSSREMOVE_FILE - Remove file from queue
                                                                                                   16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
                                                                                                                                        VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32;1
                                                                                                                                                                                                Page
                                     %SBTTL 'PAS$$REMOVE_FILE - Remove file from queue'
GLOBAL ROUTINE PAS$$REMOVE_FILE (
FCB: REF $PAS$FCB_CONTROL_BLOCK
    196
    ): NOVALUE =
                        0260
0261
0263
0263
0264
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0266
0267
0277
0277
0277
0277
0278
0278
0280
                                        FUNCTIONAL DESCRIPTION:
                                                 Remove a file's FCB from the queue of files.
                                        CALLING SEQUENCE:
                                                 PAS$$REMOVE_FILE (FCB.r.r)
                                        FORMAL PARAMETERS:
                                                 FCB
                                                                          File Control Block for file
                                        IMPLICIT INPUTS:
                                                 FILE QUEUE
REQUEST LEVEL
QUEUE INITIALIZED
                                                 REMOVE_REQUESTED
                                        IMPLICIT OUTPUTS:
                                                 FILE QUEUE
REQUEST LEVEL
QUEUE_INITIALIZED
                                                 REMOVE REQUESTED
FCB [FCB$v_DEALLOC]
                        0289
0290
0291
0292
0293
0294
0295
0296
0297
0298
0299
0300
0301
                                        COMPLETION STATUS:
                                                 NONE
                                        SIDE EFFECTS:
                                                 Removes FCB from FILE_QUEUE or requests deallocation.
                                        SIGNALLED ERRORS:
                                                 NONE
                                           BEGIN
                                           BUILTIN
                                                 REMQUE;
                                            ! Initialize the queue if necessary.
                                           IF NOT .QUEUE_INITIALIZED
                                           THEN
```

```
File manipulation utility procedures PASSSREMOVE_FILE - Remove file from queue
PASSSFILE_UTIL
                                                                                                                                                                                                                                                                                                                      16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
                                                                                                                                                                                                                                                                                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32:1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (4)
              INITIALIZE_QUEUE ();
                                                                             0311567890
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0331
                                                                                                                                                Invalidate FCB pointer in PFV.
                                                                                                                                       BEGIN
                                                                                                                                     PFV: REF $PAS$PFV_FILE_VARIABLE;
PFV = .FCB [FCB$A PFV];
PFV [PFV$V_FCB_VA[ID] = 0;
PFV [PFV$L_STATUS] = .FCB [FCB$L_STATUS];
                                                                                                                                                                                                                                                                                                                                                    ! Overlays PFV$A_FCB
                                                                                                                                                If the FCB is not on the queue then simply free the
                                                                                                                                          ! storage and return.
                                                                                                                                        IF NOT .FCB [FCB$V_ON_QUEUE]
                                                                                                                                       THEN
                                                                                                                                                          BEGIN
                                                                                                                                                          LOCAL
                                                                                                                                                         BLOCK_ADDR; ! Address of allocated block
BLOCK_ADDR = FCB [FCB$L_QUEUE_FLINK];
PAS$$FREE_VM (PAS$K_FILE_DYN_BLN, BLOCK_ADDR);
                                                                                                                                       ELSE
                                                                                                                                                          BEGIN
                                                                                                                                                                  Increment REQUEST_LEVEL. If we are at level zero, then we can do the REMQUE directly, so do it and free the storage.

Otherwise set the DEALLOC bit in the FCB and set REMOVE_REQUESTED.
                                                                              0350
                                                                                                                                                            IF (REQUEST_LEVEL=.REQUEST_LEVEL+1) EQL 0
                                                                                                                                                           THEN
                                                                                                                                                                              BEGIN
                                                                             0354
0355
0356
0357
0358
0359
                                                                                                                                                                              LOCAL
                                                                                                                                                                            ITEM_ADDR;

REMQUE (FCB [FCB$L_QUEUE_FLINK], ITEM_ADDR);

FCB [FCB$V_ON_QUEUE] = 0;

PAS$$FREE_VM (PAS$K_FILE_DYN_BLN, ITEM_ADDR);
                                                                                                                                                                                                                                                                                                                                                                    Output from REMQUE
                                                                                                                                                          ELSE
                                                                                                                                                                           BEGIN

FCB [FCB$V_DEALLOC] = 1;

REMOVE_REQUESTED = 1;
                                                                             0361
0362
0363
0364
0365
                                                                                                                                                             ! Decrement REQUEST_LEVEL.
```

```
PASSSFILE_UTIL
                                                                                                             16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
                           File manipulation utility procedures
PAS$$REMOVE_FILE - Remove file from queue
                                                                                                                                                       VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32:1
                                                                                                                                                                                                                             (4)
                                                       REQUEST_LEVEL = .REQUEST_LEVEL - 1;
                           0371
0372
0373
0374
0376
0376
0377
0378
0381
0383
                                                       END:
     314
                                                ! If a remove request has been made, service it.
     316
317
     318
319
                                                IF .REMOVE_REQUESTED
                                                THEN
     320
321
322
323
324
                                                       SERVICE_REQUEST ();
                                                RETURN:
                                                END:
                                                                                                                          ! End of routine PAS$$REMOVE_FILE
                                                                                                                               .EXTRN
                                                                                                                                            PASSSFREE_VM
                                                                                                                                           PAS$$REMOVE FILE, Save R2,R3,R4
PAS$$FREE VM, R4
REQUEST_LEVEL, R3
#8, SP
QUEUE INITIALIZED, 1$
#0, INITIALIZE_QUEUE
FCB, R2
-36(R2), PFV
#64, 7(PFV)
-44(R2), 12(PFV)
#5, -2(R2), 2$
-68(R2), BLOCK_ADDR
SP
                                                                                              001C 00000
                                                                                                                                                                                                                           0257
                                                                                                                               .ENTRY
                                                                       00000000
                                                                                                       00002
                                                                                                                               MOVAB
                                                                                                       00009
                                                                                                                               MOVAB
                                                                                                                              SUBL 2
                                                                                           08
A3
00
                                                                                                       00010
                                                                                                                               BLBS
                                                                                                       00013
                                                                                                                                                                                                                           0311
0313
                                                                                                 FB
DO
                                                                   CF
52
50
                                                       0000V
                                                                                                       0001C 1$:
                                                                                           ACA28A25A25A25A2
                                                                                                                               MOVL
                                                                                  DC 40
D4
                                                                                                  DO
                                                                                                       00020
                                                                                                                               MOVL
                                                                                                                                                                                                                           0323
0324
0333
                                                                                                       00024
                                                                                                                               BICB2
                                                                   AO
A2
6E
                                                          ŎĊ
FE
                                                                                                  DO
                                                                                                       00029
                                                                                                                               MOVL
                                                                                                      0002E
00033
                                                                                                 EO
9E
                                           10
                                                                                                                               BBS
                                                                                  BC
                                                                                                                               MOVAB
                                                                                                                                           #312, -(SP)
#2, PAS$$FREE_VM
                                                                                                 DD
3C
                                                                                                       00037
                                                                                                                               PUSHL
                                                                               0138
                                                                                                       00039
                                                                                                                               MOVZWL
                                                                                                 FB
11
                                                                                                                               CALLS
                                                                                                       0003E
                                                                                           2B
63
                                                                                                                                                                                                                           0333
                                                                                                       00041
                                                                                                                               BRB
                                                                                                 D6
12
9E
0F
                                                                                                       00043 25:
                                                                                                                               INCL
                                                                                                                                            REQUEST_LEVEL
                                                                                           1022COEF280001330
                                                                                                       00045
                                                                                                                               BNEQ
                                                                                                                                            -67(R2), R2
-(R2), ITEM_ADDR
FCB, R0
#32, -2(R0)
ITEM_ADDR
#312, -(SP)
#2, PAS$$FREE_VM
                                                                   52
AE
50
                                                                                                       00047
                                                                                                                               MOVAB
                                                                                                                                                                                                                           0356
                                                                                                       0004B
                                                                                                                               REMQUE
                                                                                                 DO 8A 9F 3C
                                                                                                                                                                                                                           0357
                                                                                  04
                                                                                                       0004F
                                                                                                                               MOVL
                                                                   AO
                                                                                                       00053
                                                                                                                               BICB2
                                                          FE
                                                                               04
                                                                                                                                                                                                                           0358
                                                                                                                               PUSHAB
                                                                                                       00057
                                                                   7E
                                                                                                       0005A
                                                                                                                               MOVZWL
                                                                                                  FB
                                                                                                       0005F
                                                                                                                               CALLS
                                                                                                                                                                                                                           0351
0362
0363
0370
0378
0380
                                                                                                       00062
                                                                                                                               BRB
                                                                                                       00064
                                                                                                                               BISB2
                                                                                                                                            #1, REMOVE REQUESTED REQUEST LEVEL REMOVE REQUESTED, 6$ #0, SERVICE_REQUEST
                                                                                                       00068
                                                                                                                               MOVL
                                                                                                  D7
E9
FB
04
                                                                                                                              DECL
                                                                                                       0006C
                                                                                                       0006E
                                                                                  08
                                                       0000V
                                                                                                       0007
                                                                                                                               CALLS
                                                                                                       00077 6$:
                                                                                                                               RET
; Routine Size: 120 bytes,
                                                     Routine Base: _PAS$CODE + 0031
```

PA

; 325 0385 1

PASSSFILE_UTIL file manipulation utility procedures 1-005 PASSSREMOVE_FILE - Remove file from queue I 7 16-Sep-1984 01:33:01 14-Sep-1984 12:51:29

VAX-11 Bliss-32 V4.0-742 [PASRTL.SRC]PASFILEUT.B32;1 Page 9 (4)

; 326 0386 1 !<BLF/PAGE>

```
PASSSFILE_UTIL
                     File manipulation utility procedures

16-Sep-1984 01:33:01
PAS$$PROMPT_ALL - Prompt on all prompt-enabled 14-Sep-1984 12:51:29
                                                                                                                      VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32:1
                                                                                                                                                                      Page
                               %SBTTL 'PAS$$PROMPT_ALL - Prompt on all prompt-enabled files'
GLOBAL ROUTINE PAS$$PROMPT_ALL
: NOVALUE =
                    FUNCTIONAL DESCRIPTION:
                                          Finds all files for which prompting is enabled and which have partial lines and writes the partial lines.
                                  CALLING SEQUENCE:
                                          PAS$$PROMPT_ALL ()
                                  FORMAL PARAMETERS:
                                          NONE
                                  IMPLICIT INPUTS:
                                          FILE QUEUE
REQUEST LEVEL
QUEUE INITIALIZED
REMOVE_REQUESTED
                                  IMPLICIT OUTPUTS:
                                          NONE
                                  COMPLETION STATUS:
                                          NONE
                                  SIDE EFFECTS:
                                  SIGNALLED ERRORS:
                                     BEGIN
                                     LOCAL
                                          FCB: REF $PAS$FCB_CONTROL_BLOCK;
                                                                                                ! File control block
                                     BIND
                                          RAB = FCB: REF BLOCK [, BYTE];
                                                                                                ! RAB is FCB
                                     BUILTIN
                                          TESTBITCS;
                                     ! If queue is not initialize, bugcheck.
                                     IF NOT .QUEUE_INITIALIZED
                                     THEN
```

```
PASSSFILE_UTIL
                                                                                             16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
                       File manipulation utility procedures PAS$$PROMPT_ALL - Prompt on all prompt-enabled
                                                                                                                                 VAX-11 Bliss-32 V4.0-742
LPASRTL.SRCJPASFILEUT.B32:1
                                                                                                                                                                                             (5)
                                                                                                                                                                                      Page
                                               $PAS$BUGCHECK (BUG_FQNOTINIT);
                       ! Increment REQUEST_LEVEL.
                                         REQUEST_LEVEL = .REQUEST_LEVEL + 1;
                                          ! Get the first file from the queue.
                                         FCB = .FILE_QUEUE [0];
                                         ! While there are files left, look for files to prompt on.
                                         WHILE (FCB [FCB$R_FCB] NEQA FILE_QUEUE) DO ! Stop when we get back to header
                                               BEGIN
                                               FCB = FCB [FCB$R_FCB] + FCB$K_BLN;
IF .FCB [FCB$V_PROMPT_ENABLE] AND
.FCB [FCB$V_GENERATION] AND
NOT .FCB [FCB$V_DEALLOC]
                                                                                                         ! Set correct FCB origin
                                               THEN
                                                     BEGIN
                                                     LOCAL
    412
                                                    PFV: REF $PAS$PFV FILE_VARIABLE: ! PE
PFV = .FCB [FCB$A PFV]: ! Get file variable
IF PFV [PFV$R_PFV] NEQA 0
                                                                                                                     ! Pascal File Variable
                                                           IF TESTBITCS (PFV [PFV$V_LOCK]) ! Test and set file lock THEN
    419012345678901234567890
44223456789012344433890
                                                                BEGIN
                                                                   file is locked. See if it is in Generation mode and has a partial line in the buffer. If so, call PAS$$PROMPI_FILE to output the prompt.
                                                                IF .FCB [FCB$V_GENERATION] AND
(.FCB [FCB$A_RECORD_CUR] NEQA .FCB [FCB$A_RECORD_BEG])
                                                                      PAS$$PROMPT_FILE (PFV [PFV$R_PFV], FCB [FCB$R_FCB]);
                                                                ! Unlock file.
                                                                PFV [PFV$V_LOCK] = 0;
                                                     END:
                                               ! Get next file from queue.
```

```
PASSSFILE_UTIL
                         File manipulation utility procedures

PAS$$PROMPT_ALL - Prompt on all prompt-enabled 16-Sep-1984 01:33:01
16-Sep-1984 01:33:01
                                                                                                                                                 VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32:1
                                                                                                                                                                                                                     (5)
                          FCB = .FCB [FCB$L_QUEUE_FLINK];
                                                Decrement REQUEST_LEVEL.
                                              REQUEST_LEVEL = .REQUEST_LEVEL - 1;
                                              ! If a remove request has been made, service it.
                                              IF .REMOVE_REQUESTED
                                              THEN
                                                    SERVICE_REQUEST ();
     460
                                              RETURN:
                                              END:
                                                                                                                      ! End of routine PAS$$PROMPT_ALL
                                                                                                                          .EXTRN
                                                                                                                                       PAS$$BUGCHECK
                                                                                                                                       PAS$$PROMPT_ALL, Save R2,R6,R7
REQUEST_LEVEL, R2
QUEUE_INITIALIZED, 1$
                                                                                                                                                                                                                   0388
                                                                                           0004 00000
                                                                                                                          .ENTRY
                                                                52 00000000'
                                                                                                   00002
                                                                                                                          MOVAB
                                                                                       A2
01
01
                                                                                                                                                                                                                   0442
                                                                                                   00009
                                                                                                                          BLBS
                                                                                              DD
                                                                                                   0000D
                                                                                                                          PUSHL
                                                                                             FB
04
                                              0000000G
                                                                00
                                                                                                   0000F
                                                                                                                                       #1, PAS$$BUGCHECK
                                                                                                                          CALLS
                                                                                                   00016
                                                                                                                          RET
                                                                                                                                       REQUEST LEVEL FILE QUEUE, FCB FILE QUEUE, RO FCB, RO
                                                                                                                                                                                                                   0450
0456
0462
                                                                                                                          INCL
                                                                                       62278700179
19
                                                                57
50
50
                                                                                              DO
9E
                                                                                                   00019
                                                                                                                          MOVL
                                                                                                   0001D
                                                                                                                          MOVAB
                                                                                             D1
13
                                                                                                                          CMPL
                                                                                                   00024
                                                                                                                          BEQL
                                                                                                                                      68(R7), FCB

#6, -3(FCB),

#4, -3(FCB),

#1, -2(FCB),

-36(FCB), PFV
                                                                57
A7
A7
A7
56
                                                                                                  00026
0002A
                                                                                                                                                                                                                   0464
                                                                               44
                                                                                              9E
E1
E0
D0
13
                                                                                                                          MOVAB
                                                        FD
FE
                                                                                                                          BBC
                                                                                                                                                                                                                   0466
0467
0472
0473
0475
0484
0485
                                                                                                   0002F
                                                                                                                          BBC
                                                                                                   00034
                                                                                                                          BBS
                                                                               DC
                                                                                                   00039
                                                                                                                          MOVL
                                                                                                                                     4$
#31, 4(PFV), 4$
#4, -3(FCB), 3$
-20(FCB), -24(FCB)
                                                                                                   0003D
                                                                                                                          BEQL
                                                        O4
FD
E8
                                                                A6
A7
A7
                                                                                                   0003F
                                                                                                                          BBSS
                                                                                                                          BBC
                                                                               EC
                                                                                                   00049
                                                                                                                          CMPL
                                                                                                                          BEQL
                                                                                                                                                                                                                  0487
0493
0502
0462
0509
0515
0517
                                                                                                                         BSBW
BICB2
MOVL
                                                                                                                                      PAS$$PROMPT_FILE
#128, 7(PFV)
-68(FCB), FCB
                                                                                              30
8A
                                                                A6
57
                                                                                       A7
BF
62
A00
                                                                                                  0005C
0005E
00060
00064
                                                                                                                          BRB
                                                                                                                                      REQUEST_LEVEL
REMOVE_REQUESTED, 69
                                                                                              D7
E9
FB
04
                                                                                                                          DECL
                                                                                                                         BLBC
                                                                               08
                                                     0000V
                                                                                                                          CALLS
```

; Routine Size: 106 bytes, Routine Base: _PAS\$CODE + 00A9

PAS\$\$FILE_UTIL File manipulation utility procedures 16-Sep-1984 01:33:01 VAX-11 Bliss-32 V4.0-742 PAS\$\$PROMPT_ALL - Prompt on all prompt-enabled 14-Sep-1984 12:51:29 [PASRTL.SRC]PASFILEUT.B32;1 (5)

PA 1-

: 463 0522 1 : 464 0523 1 !<BLF/PAGE>

```
PASSSFILE_UTIL
                  File manipulation utility procedures PAS$$PROMPT_FILE - Prompt on a prompt-enabled
                                                                       16-Sep-1984
f 14-Sep-1984
                                                                                                      VAX-11 Bliss-32 V4.0-742
LPASRTL.SRCJPASFILEUT.B32:1
                                                                                                                                                Page
                           052267890055233456789055339
                                                                                   ! Pascal File Variable
! File Control Block
                              FUNCTIONAL DESCRIPTION:
                                     Performs a partial-line write on a prompt-enabled file.
                              CALLING SEQUENCE:
                                     PAS$$PROMPT_FILE (PFV.mr.r, FCB.mr.r)
                              FORMAL PARAMETERS:
                                     PFV
                                                       - The Pascal File Variable for the file.
                                     FCB
                                                       - The File Control Block for the file.
                              IMPLICIT INPUTS:
                                     It is assumed that the file is a prompt-enabled textfile which is locked and in Generation mode.
                              IMPLICIT OUTPUTS:
                                     NONE
                              COMPLETION STATUS:
                                     NONE
                              SIDE EFFECTS:
                  0560
                                     A partial line is written to the file, with the cursor left at
                  0561
                                     the end of the text written.
                              SIGNALLED ERRORS:
                  0564
0565
                                     ERRDURPRO - error during prompting
   0566
0567
0568
0569
0570
0571
0572
0573
0576
0577
0578
                                BEGIN
                                LOCAL
                                     CHARS_IN_LINE;
                                                                                   ! Number of characters in the line
                                     RAB = FCB: REF BLOCK [, BYTE];
                                                                                   ! RAB is FCB
                                ! If the record has any characters in it, write the partial line.
                                CHARS_IN_LINE = .FCB [FCB$A_RECORD_CUR] - .FCB [FCB$A_RECORD_BEG];
```

1-

```
File manipulation utility procedures 16-Sep-1984 01:33:01 PAS$$PROMPT_FILE - Prompt on a prompt-enabled f 14-Sep-1984 12:51:29
PASSSFILE_UTIL
                                                                                                                            VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32;1
                                                                                                                                                                                      (6)
                                                                                                                                                                               Page
                                        IF .CHARS_IN_LINE NEQ O
    BEGIN
                                               Set up record pointer in RAB for $PUT.
                                             RAB [RAB$L_RBF] = .FCB [FCB$A_RECORD_BEG];
RAB [RAB$W_RSZ] = .CHARS_IN_LINE;
                                               Set carriagecontrol depending on whether a partial line has been previously written.
                                             IF .FCB [FCB$V_PARTIAL_LINE]
   554434567890123456789
                                                  FCB [FCB$W_PROMPT_CC] = FCB$K_CC_NULL
                                                                                                                ! Nothing before, nothing
                      0600
                                                  FCB [FCB$W_PROMPT_CC] = FCB$K_CC_LFNL;
                                                                                                                ! LF before, nothing after
                      0601
                      0602
0603
0604
                                               Do the $PUT and check for errors.
                      0605
0606
0607
0608
0609
0610
0611
0613
0616
0617
0618
0619
                                             IF NOT $PAS$RMS_OP ($PUT (RAB=.RAB))
                                                  $PAS$10_ERROR (PAS$_ERRDURPRO);
                                               Reset the record buffer.
                                             FCB [FCB$A_RECORD_CUR] = .FCB [FCB$A_RECORD_BEG];
FCB [FCB$V_PARTIAL_LINE] = 1;
                                             END:
    560
561
                                       RETURN:
   562
                      0620
                                       END:
                                                                                                      ! End of routine PAS$$PROMPT_FILE
                                                                                                                    SYSSPUT, PASSSSIGNAL
                                                                                                                   PAS$K_ERRDURPRO
                                                                                                         .EXTRN
                                                                                C3 00000 PAS$$PROMPT FILE:
                                   50
                                                       A7
                                                                   E8
                                                                                                                                                                                    0580
0581
0588
                                                                                                                   -24(FCB), -20(FCB), CHARS_IN_LINE
                                                                                13
00
80
95
18
                                                                                    00006
00008
00000
                                                                                                        BEQL
                                                                           49
47
50
7
07
04
                                                                                                                   -24(FCB), 40(FCB)
CHARS IN_LINE, 34(FCB)
-3(FCB)
                                                      A7
                                                                   E8
                                                                                                        MOVL
                                                                                                        MOVW
                                                                   FD
                                                                                     00011
                                                                                                        TSTB
                                                                                                                                                                                     0596
                                                                                    00014
00016
00019
                                                                                                        BGEQ
                                                                                                                    15
                                                                                B4
                                                                   FA
                                                                                                        CLRW
                                                                                                                    -6(FCB)
                                                                                                                                                                                    0598
                                                                                                                    2$
#1, -6(FCB)
                                                                                                        BRB
                                                                           01
                                                                                BO
                                                                                    0001B 1$:
                                                                                                                                                                                    0600
                                                FA
                                                      A7
                                                                                                        MOVW
```

PA:

PASSSFILE_UTIL	File manipulation util PAS\$\$PROMPT_FILE - Pro	ity p	rocedures n a prompt-e	nab	led f	S-Sep 4-Sep	-1984 01:33:01 -1984 12:51:29	VAX-11 Bliss-32 V4.0-742 [PASRTL.SRC]PASFILEUT.B32;1	Page 16
	00000000G 0001825A	00 10 8F	57 01 50	FED	B 00021 B 00028	2\$:	PUSHL FCB CALLS #1, BLBS \$\$\$ CMPL \$\$\$ BNEQ 3\$ BLBS -1(BLBS \$\$\$ MOVZBL #PA	SYS\$PUT TATUS, 4\$ TATUS, #98906	: 0606
	0000000G	E7 0C 7E 00	FF A7	E 9	8 00038 A 0003B B 0003F	3\$:	LALLS #1.	FCB), 2\$ TATUS, 4\$ S\$K_ERRDURPRO, -(SP) PAS\$\$SIGNAL	0608
	E C F D	A7 A7	E8 A7	080	0 00047	4\$: 5\$:	MOVL -24 BISB2 #12 RSB	(FCB), -20(FCB) 8, -3(FCB)	0614 0615 0621

; Routine Size: 82 bytes, Routine Base: _PAS\$CODE + 0113

: 564 0622 1 : 565 0623 1 !<BLF/PAGE>

```
PASSSFILE_UTIL
                     File manipulation utility procedures PAS$$CLOSE_ALL - Close all open files
                                                                                       16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
                                                                                                                        VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32;1
                                                                                                                                                                                (7)
                                                                                                                                                                         Page
                                %SBTTL 'PAS$$CLOSE_ALL - Close all open files' GLOBAL ROUTINE PAS$$CLOSE_ALL
                     : NOVALUE =
                                   FUNCTIONAL DESCRIPTION:
                                           Closes all open files. This procedure is called from the exit handler declared by PAS$$OPEN.
                                   CALLING SEQUENCE:
                                           PAS$$CLOSE_ALL ()
                                   FORMAL PARAMETERS:
                                           NONE
                                   IMPLICIT INPUTS:
                                           FILE_QUEUE
                                   IMPLICIT OUTPUTS:
                                           NONE
                                   COMPLETION STATUS:
                                           NONE
                                   SIDE EFFECTS:
                                           Closes all open files, and removes their control blocks
                                           from the queue.
                                   SIGNALLED ERRORS:
                                           NONE
                                      BEGIN
                                      LOCAL
                                           FCB: REF $PAS$FCB_CONTROL_BLOCK,
DUMMY_PFV: $PAS$PFV_FILE_VARIABLE,
AST_STATUS;
                                                                                                    File control block
Dummy PFV for local use
Status from $SETAST
   611
    612
   614
615
616
617
                                      BUILTIN
                                           REMQUE:
   618
                                      ! If queue not initialized, nothing to close.
                                      IF NOT .QUEUE_INITIALIZED
                                      THEN
                                           RETURN;
```

```
16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
PASSSFILE_UTIL
                        File manipulation utility procedures PASSSCLOSE_ALL - Close all open files
                                                                                                                                         VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32:1
                                                                                                                                                                                                 Page 18 (7)
                        Set up dummy PFV. We will use this to close files since the true PFV may be invalid.
                                            DUMMY_PFV [PFV$W_FLAGS] = 0;
                                            ! Disable ASTs
                                            AST_STATUS = $SETAST (ENBFLG=0);
                                            ! Remove all files from the queue, and close those still open.
                                            UNTIL (REMQUE (.FILE_QUEUE [0], FCB)) DO
                                                                                                                ! True when REMQUE fails
                                                 BEGIN

FCB = FCB [FCB$R_FCB] + FCB$K_BLN;

IF NOT .FCB [FCB$V_DEALLOC]
                                                                                                                            ! Get correct FCB origin
                                                        BEGIN
                                                          Use dummy PFV to do the close.
                                                        DUMMY_PFV [PFV$A_FCB] = FCB [FCB$R_FCB];
DUMMY_PFV [PFV$A_PFD] = .FCB [FCB$A_PFD];
DUMMY_PFV [PFV$V_FCB_VALID] = 1;
DO_CLOSE (DUMMY_PFV [PFV$R_PFV]); ! Clo
                                                                                                              ! Close the file
                                                        END:
                                                  END:
                                            ! If ASTs were previously enabled, reenable them.
    660
661
662
663
664
665
666
667
                                            IF .AST_STATUS EQL SS$_WASSET
                                                 SSETAST (ENBFLG = 1);
                                            RETURN:
                                                                                                                ! End of routine PAS$$CLOSE_ALL
                                            END:
                                                                                                                    .EXTRN
                                                                                                                              SYS$SETAST
                                                                                     001C 00000
0 9E 00002
0 C2 00009
F E9 0000C
E B4 00013
D4 00016
I FB 00018
                                                                                                                   .ENTRY
MOVAB
SUBL 2
BLBC
CLRW
                                                                                                                                PASSSCLOSE_ALL, Save R2,R3,R4
SYSSSETAST, R4
                                                                                                                                                                                                        0625
                                                            54 00000000G
5E
3E 00000000'
                                                                                   00
10
EF
AE
7E
01
                                                                                                                                #16, SP
QUEUE_INITIALIZED, 3$
DUMMY_PFV+6
-(SP)
                                                                                                                                                                                                        0678
0687
0693
                                                                                                                    CLRL
                                                                                                                                #1, SYSSSETAST
```

00

PASSSFILE_UTIL	File manipulatio	n util Close	ity	procedures l open file	s		16-Ser 14-Ser	0-1984 01:33 0-1984 12:51	3:01 1:29	VAX-11 Bliss-32 V4.0-742 CPASRTL.SRCJPASFILEUT.B32;1	Page 1
	EE	FE 0C 08 07 0000V	53 52 52 AE AE CF 09 64	00000000° 44 <u>E4</u> 40	50F022122A0522FE07735001	D0FDED008DB1112DB4	0001B 0001E 00025 00027 0002B 00030 00034 00039 00045 00045 00045 00046 00046 00046 00046 00046	MOVL REMQUE BVS MOVAB BBS MOVL MOVL BISB2 PUSHL CALLS BRB CMPL BNEQ PUSHL CALLS RET	28 (F) F C 28 (F) F C	AST STATUS LE_QUEUE, FCB R2), FCB -2(FCB), 1\$ DUMMY PFV+12 (FCB), DUMMY PFV+8 DUMMY_PFV+7 DO_CLOSE STATUS, #9 SYS\$SETAST	069 070 070 070 071 071 071

; Routine Size: 82 bytes, Routine Base: _PAS\$CODE + 0165

: 669 0726 1 : 670 0727 1 !<BLF/PAGE>

```
6 8
16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
PASSSFILE_UTIL
                     File manipulation utility procedures
PAS$CLOSE_LOCAL_R3 - Close local files
                                                                                                                     VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32:1
                                %SBTTL 'PAS$CLOSE_LOCAL_R3 - Close local files'
GLOBAL ROUTINE PAS$CLOSE_LOCAL_R3
: JSB_CLOSE_LOCAL_NOVALUE =
   FUNCTIONAL DESCRIPTION:
                                          Closes all open files which were declared local by our caller.
                                  CALLING SEQUENCE:
                                           JSB PAS$CLOSE_LOCAL_R3
                                  FORMAL PARAMETERS:
                                          NONE
                                  IMPLICIT INPUTS:
                                          Current FP (Caller's)
                                  IMPLICIT OUTPUTS:
                                          NONE
                                  COMPLETION STATUS:
   NONE
                                  SIDE EFFECTS:
                                          Preserves registers 0 and 1. See PAS$$CLOSE_LOCAL
                                  SIGNALLED ERRORS:
                                          NONE
                                     BEGIN
                                     BUILTIN
                                          FP;
                                       Call PAS$$CLOSE_LOCAL with one argument, the current FP. This will get pushed on the stack.
                                     PAS$$CLOSE_LOCAL (.FP);
                                     RETURN:
                                     END:
                                                                                                ! End of routine PAS$$CLOSE_LOCAL_R3
```

H 8 16-Sep-1984 01:33:01 14-Sep-1984 12:51:29 VAX-11 Bliss-32 V4.0-742 [PASRTL.SRC]PASFILEUT.B32;1 PASSSFILE_UTIL File manipulation utility procedures 1-005 PASSCLOSE_LOCAL_R3 - Close local files Page 21 (8) 5D DD 00000 PAS\$CLOSE_LOCAL_R3::

POSHL FP

DOOV 30 00002 BSBW PAS\$\$CLOSE_LOCAL
04 CO 00005 ADDL2 #4, SP

05 00008 RSB

5E

0000V 30 00002 04 CO 00005 05 00008

0777 0781 PA 1-

; Routine Size: 9 bytes, Routine Base: _PAS\$CODE + 01B7

726 727

0782 1 0783 1 !<BLF/PAGE>

```
8
PASSSFILE_UTIL
                                                                                                      16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
                         File manipulation utility procedures PAS$$CLOSE_LOCAL - Close local files
                                                                                                                                             VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32:1
                                      %SBTTL 'PAS$$CLOSE_LOCAL - Close local files'
GLOBAL ROUTINE PAS$$CLOSE_LOCAL (PROCEDURE_FP)
: JSB_CLOSE_LOCAL NOVALUE =
    FUNCTIONAL DESCRIPTION:
                                                   Closes all open files which were declared local by our caller.
                                         CALLING SEQUENCE:
                                                   JSB PAS$$CLOSE_LOCAL (PROCEDURE_FP.rlu.v)
                                         FORMAL PARAMETERS:
                                                   PROCEDURE_FP - This is the frame pointer of the procedure for which we are closing its local files. This value is passed on the stack.
                                         IMPLICIT INPUTS:
                                                  OUT SP
FILE QUEUE
REQUEST LEVEL
QUEUE INITIALIZED
REMOVE_REQUESTED
                                         IMPLICIT OUTPUTS:
                                                   NONE
                                         COMPLETION STATUS:
                                                   NONE
                                         SIDE EFFECTS:
                                                   Closes all open files whose PFVs are between PROCEDURE_FP and SP (i.e. declared locally in our caller's procedure).
                         SIGNALLED ERRORS:
                                                   NONE
                                            BEGIN
                                            LOCAL
                                                  FCB: REF $PAS$FCB_CONTROL_BLOCK, NEXT_FCB, REMQUE_OK;
                                                                                                                     File control block
Next FCB in QUEUE
TRUE if ok to do REMQUES
                                            BUILTIN REMQUE,
                                                   SP:
                                             !+
```

```
PASSSFILE_UTIL
                                                                            16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
                  File manipulation utility procedures
PAS$$CLOSE_LOCAL - Close local files
                                                                                                        VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32;1
                                 If queue not initialized, nothing to close.
                  IF NOT .QUEUE_INITIALIZED
                                     RETURN;
                                 ! Increment REQUEST_LEVEL and set REMQUE_OK appropriately.
                                 IF (REQUEST_LEVEL = .REQUEST_LEVEL + 1) NEQ 0
                                     REMQUE_OK = 0
                                 ELSE
                                     REMQUE_OK = 1;
                                   Get the first FCB from the queue.
                                 FCB = .FILE_QUEUE [0];
                                                                            ! Forward link
                                   While there are files left, look for local files to close.
                                 WHILE (FCB [FCB$R_FCB] NEQA FILE_QUEUE) DO ! Stop when we get back to header
                                     ! Get correct FCB origin ! Next file in queue
                                          BEGIN
                                          LOCAL
                                          BEGIN
                                                 We have a local file. We can't be guaranteed that the contents of the PFV are valid, so set the necessary items here. Close the file.
                                               PFV [PFV$W_FLAGS] = 0;

PFV [PFV$V_LOCK] = 1;

PFV [PFV$V_FCB_VALID] = 1;

PFV [PFV$A_FCB] = FCB [FCB$R_FCB];

PFV [PFV$A_PFD] = .FCB [FCB$A_PFD];
                                               DO_CLOSE (PFV [PFV$R_PFV]);
                                                 Remove the file from the queue. This will either be
                                                 a REMQUE or a request to remove.
```

```
16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
PASSSFILE_UTIL
                           File manipulation utility procedures
PAS$$CLOSE_LOCAL - Close local files
                                                                                                                                                       VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32;1
                           884444890123456789012345678901234567890123456789012345678901234567890123456789012345678901
                                                                    IF .REMQUE_OK THEN
                                                                           BEGIN
LOCAL
                                                                           ITEM_ADDR;

REMQUE (FCB [FCB$L QUEUE_FLINK], ITEM_ADDR);

PAS$$FREE_VM (PAS$R_FILE_DYN_BLN, ITEM_ADDR);
                                                                    ELSE
                                                                          BEGIN

FCB [FCB$V_DEALLOC] = 1;

REMOVE_REQUESTED = 1;
                                                                           END:
                                                                    END:
                                                             END:
                                                          Get next FCB from queue.
                                                       FCB = .NEXT_FCB;
                                                       END:
                                                ! Decrement REQUEST_LEVEL.
                                                REQUEST_LEVEL = .REQUEST_LEVEL - 1;
                                                ! If a remove request has been made, service it.
                                                    .REMOVE_REQUESTED
                                                      SERVICE_REQUEST ();
                                                RETURN:
                                                END:
                                                                                                                           ! End of routine PAS$$CLOSE_LOCAL
                                                                                                 BB 00000 PAS$$CLOSE_LOCAL::
PUSHR #A
C2 00002 SUBL2 #8
                                                                                                                                                                                                                           0785
                                                                                                                                             #^M<R0,R1>
                                                                                                      00002
00005
0000C
0000F
00015
00017
00019
0001B
0001E
                                                                                       08
EF
0099
                                                                                                                                            #8, SP
QUEUE_INITIALIZED, 1$
                                                                   03 000000000
                                                                                                  CE3163410091
                                                                                                                                                                                                                           0844
                                                                                                                               BLBS
                                                                                                                              BRW
INCL
BEQL
CLRL
BRB
MOVL
MOVL
MOVAB
                                                                        00000000
                                                                                                                                                                                                                           0852
                                                                                                                                             REQUEST_LEVEL
                                                                                                                                            REMQUE_OK
                                                                                                                                                                                                                           0854
                                                                                                                                            #1, REMQUE_OK

FILE_QUEUE, FCB

FILE_QUEUE, RO

FCB, RO
                                                                                                                                                                                                                           0856
0862
0868
                                                                        00000000:
                                                                                                                               CMPL
```

14	PASSSFILE_UTIL	File manipulation uppasssclose_LOCAL -	ilit	procedures local files			16- 14-	8 Sep-1984 01 Sep-1984 12	:33	:01	VAX-11 Bliss-32 V4.0-742 [PASRTL.SRC]PASFILEUT.B32;1	Page	(9)
05 000AD RSB ;		00000000 00000000000000000000000000000	51 AC AC AC AC AC AC AC AC AC AC AC AC AC	06 C0 E4 BC 04 0138	6AA00A5453A85A506A6A8000058EE0000	188000DB9EFFCB1800179B0			B U U 2 LS BUEBLS 2	78861	CB), FCB CB), NEXT FCB 2(FCB), 6\$ CB), PFV PROCEDURE_FP SP (PFV) 12(PFV) CB), 8(PFV) O_CLOSE E_OK, 5\$ CB), RO ITEM_ADDR ADDR ADDR -(SP) AS\$\$FREE_VM (2(FCB) EMOVE_REQUESTED FCB_FCB		0870 0871 0872 0877 0878 0887 0889 0890 0891 0892 0899 0904 0905 0899 0905 0899 0910 0917 0868 0924 0930 0932 0936

; Routine Size: 174 bytes. Routine Base: _PAS\$CODE + 01CO

: 882 0937 1 : 883 0938 1 !<BLF/PAGE> ::

```
PASSSFILE_UTIL
                      File manipulation utility procedures DO_CLOSE - Close a file
                                                                                             16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
                                                                                                                               VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32;1
                                  ! Close a file
! File variable
                                     FUNCTIONAL DESCRIPTION:
                                             This routine closes a Pascal file. This entry is called from PAS$$CLOSE_ALL and PAS$CLOSE_LOCAL. It is different from PAS$CLOSE2 only in that it does not call PAS$$REMOVE_FILE to remove the FCB from the list of open files.
                                     CALLING SEQUENCE:
                                              CALL DO_CLOSE (PFV.mr.r)
                                     FORMAL PARAMETERS:
                                                                     - The Pascal File Variable (PFV) passed by reference. The structure of the PFV is defined in PASPFV.REQ.
                                              PFV
                                     IMPLICIT INPUTS:
                                              NONE
                                     IMPLICIT OUTPUTS:
                                              NONE
                                     ROUTINE VALUE:
                                              NONE
                                     SIDE EFFECTS:
                                              See PAS$$CLOSE
                                     SIGNALLED ERRORS:
                                              ERRDURCLO - error during CLOSE
                                        BEGIN
                                              PFV_ADDR: VOLATILE;
                                                                                                       ! Enable argument
                                          Enable a local condition handler to intercept any signals from trying to close the file.
                                        ENABLE
                                              DO_CLOSE_HANDLER (PFV_ADDR);
```

........

...........

```
PASSSFILE_UTIL
                        File manipulation utility procedures DO_CLOSE - Close a file
                                                                                                   16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
                                                                                                                                        VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32;1
                                                                                                                                                                                               Page 27
(10)
    ! Lock PFV We don't care if it is already locked.
                                           PFV [PFV$V_LOCK] = 1;
                                           Set PFV_ADDR enable argument.
                                           PFV_ADDR = PFV [PFV$R_PFV];
                                           Call PAS$$CLOSE to do the work.
                                           PAS$$CLOSE (PFV [PFV$R_PFV]);
                                           ! Invalidate information in PFV
                                           PFV [PFV$V_FCB_VALID] = 0;
PFV [PFV$A_FCB] = 0;
                        1020
1021
1022
1023
                                           RETURN;
                                           END:
                                                                                                               ! End of routine DO_CLOSE
                                                                                                                  .EXTRN PASSSCLOSE
                                                                                    0004 00000 DO_CLOSE:
                                                                                                                              Save R2
PFV_ADDR
1$, (FP)
PFV, R2
#128, 7(R2)
R2, PFV_ADDR
R2
#1, PAS$$CLOSE
#64, 7(R2)
12(R2)
                                                                                                                   . WORD
                                                                                                                                                                                                     0940
0983
                                                                                           00002
00004
00009
00000
00012
00015
00017
0001E
00023
00026
00027
00029
00031
00034
00036
00038
00036
                                                                                                                  CLRL
                                                                                 001F
04
80
                                                                                       DE DO 88 DO
                                                                                                                  MOVAL
                                                                                                                  MOVL
                                                                                                                                                                                                     1000
                                                    07
                                                                                                                  BISB2
                                                                                                                                                                                                     1006
1012
                                                                                                                  MOVL
                                                                                        DD
                                                                                                                  PUSHL
                                           0000000G
                                                                                        FB
8A
                                                                                                                  CALLS
                                                                          40
                                                                                                                                                                                                     1018
1019
                                                                                                                  BICB2
                                                                                       04
                                                                                                                  CLRL
                                                                                                                                                                                                     1023
0983
                                                                                                                  RET
                                                                                                                              Save nothing
8(AP), RO
4(RO), RO
PFV_ADDR
                                                                                     0000
                                                                                                                  . WORD
                                                                          08
04
FC
                                                                                       D0
D0
9F
                                                            50
                                                                                                                  MOVL
                                                                                  MOVL
                                                                                                                  PUSHAB
                                                                                        DD
                                                                                                                  PUSHL
                                                                                        DD 7D FB 04
                                                                                                                  PUSHL
                                                                          04
                                                                                                                  MOVQ
                                                                                                                              4(AP), -(SP)
#3, DO_CLOSE_HANDLER
                                                 0000V
                                                                                                                  CALLS
; Routine Size: 66 bytes.
                                                                     _PAS$CODE + 026E
                                              Routine Base:
```

**

PASSSFILE_UTIL File manipulation utility procedures 1-005 DO_CLOSE - Close a file

B 9 16-Sep-1984 01:33:01 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:51:29 [PASRTL.SRCJPASFILEUT.B32:1

Page 28 (10)

: 970 : 971

1024 1 1025 1 !<BLF/PAGE>

PAS

PAS 1-0

```
PASSSFILE_UTIL
                                                                                                           16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
                          File manipulation utility procedures DO_CLOSE_HANDLER - Error handler for DO_CLOSE
                                                                                                                                                    VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32:1
                                                                                                                                                                                                                 Page 30 (11)
                           1083
1084
1085
1086
1087
  1031234567890123445678901005345678901006678901077890108310836789010778901083345678901077789010833456789010833456789010833456789010833456789010833456789010833456789010833456789010833456
                                            ROUTINE VALUE:
                                                     SS$_RESIGNAL
                           1088
1089
1090
1091
1092
1093
1094
1095
1096
1100
1101
1102
1103
1106
1107
1108
                                            SIDE EFFECTS:
                                                     May cause an unwind.
                                               BEGIN
                                              ENB_COUNT = 0,
ENB_PFV_ADDR = 1;
                                                                                              ! Count of enable arguments ! Address of address of PFV
                                               BUILTIN ACTUAL COUNT;
                                                ! Determine if this is an unwind.
                                               IF .SIGNAL_ARGS [CHF$L_SIG_NAME] NEQU SS$_UNWIND
                                               THEN
                                                     BEGIN
                                                     LOCAL
                                                            COND_NAME: BLOCK [4, BYTE]; ! Primary condition name
                                                      ! Get primary condition name.
                                                     COND_NAME = .SIGNAL_ARGS [CHF$L_SIG_NAME];
                                                      ! Is this a PAS$ error? If not, resignal.
                                                     IF .COND_NAME [STS$V_FAC_NO] NEQU PASS_FACILITY
                                                            RETURN SS$_RESIGNAL;
                                                        See if the error message is one which is "trapped" by ERROR:=CONTINUE. This is done by comparing the
                                                         message number against a select range.
                                                     IF .COND_NAME [STS$V_CODE] GEQU PAS$$K_MSGCONTLO AND ! Lowest number .COND_NAME [STS$V_CODE] LEQU PAS$$K_MSGCONTHI
                                                            BEGIN
                                                             !+
```

PAS 1-0

```
16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
PASSSFILE_UTIL
                         File manipulation utility procedures DO_CLOSE_HANDLER - Error handler for DO_CLOSE
                                                                                                                                           VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32:1
                                                                                                                                                                                                    Page 31
(11)
                                                           See if the PFVs match. The signaller's PFV is the first FAO parameter in the primary message.
                         1141
1142
1143
   1088
   1089
  1090
1091
1092
1093
1094
1095
1096
1097
1098
1100
1101
1102
1106
1106
                                                         IF .SIGNAL_ARGS [12,0,32,0] EQLA ..ENABLE_ARGS [ENB_PFV_ADDR]
                                                         THEN
                                                               BEGIN
                                                                  We want to use $PUTMSG to display the message, and then unwind to our establisher's caller. First, subtract two from the signal argument count so that $PUTMSG doesn't see
                         1150
                         1151
1152
1153
1154
1155
                                                                  the PC and PSL.
                                                               SIGNAL_ARGS [CHF$L_SIG_ARGS] = .SIGNAL_ARGS [CHF$L_SIG_ARGS] - 2;
COND_NAME [STS$V_SEVERITY] = STS$K_ERROR; ! Make E severity
                                                               SIGNAL_ARGS [CHF$L_SIG_NAME] = .COND_NAMÉ;

$PUTMSG (MSGVEC = SIGNAL_ARGS [CHF$L_SIG_ARGS]);

SIGNAL_ARGS [CHF$L_SIG_ARGS] = .SIGNAL_ARGS [CHF$L_SIG_ARGS] + 2;
                         1160
  1108
                         1161
                                                               IF NOT SUNWIND ()
                         1162
1163
1164
1165
                                                               THEN
   1110
                                                                     $PAS$BUGCHECK (BUG_UNWINDFAIL);
   1111
                                                               END:
                                                         END:
                         1166
1167
                                                  END:
                         1168
                                            RETURN SS$_RESIGNAL;
                                                                                                                 ! Resignal error
                         1169
  1117
                                                                                                                  ! End of routine DO_CLOSE_HANDLER
                                            END:
                                                                                                                                 PASS_FACILITY, PASSSK_MSGCONTLO
                                                                                                                                 PASSSK MSGCONTHI
                                                                                                                     .EXTRN
                                                                                                                                 SYS$PUTMSG, SYS$UNWIND
                                                                                                                     .EXTRN
                                                                                      0004 00000 DO_CLOSE_HANDLER: .WORD S
                                                                                                                                                                                                          1027
1107
                                                                                                                                 Save R2
                                                             52
8F
                                                                                                                                 SIGNAL_ARGS,
4(R2), #2336
                                                                           04
                                                                                                                     MOVL
                                                                                    AC2F204336C237C21F
                                                                                         D1
13
                                            00000920
                                                                                              00006
                                                                                                                     CMPL
                                                                                               0000E
                                                                                                                     BEQL
                                                                            04
                                                                                          DO
                                                                                              00010
                                                                                                                                 4(R2), COND_NAME
#16, #12, COND_NAME, S^PASS_FACILITY
                                                                                                                     MOVL
                                                                                                                                                                                                          1118
1124
                                                                                          ED
12
                 00G
                                       51
                                                             OC
                                                                                               00014
                                                                                                                     CMPZV
                                                                                              00019
                                                                                                                     BNEQ
0000000G
                                       51
                                                             00
                                                                                         ED
1F
                                                                                              0001B
                                                                                                                                                                                                          1134
                 8F
                                                                                                                     CMPZV
                                                                                                                                 #3, #12, COND_NAME, #PAS$$K_MSGCONTLO
                                                                                              00024
                                                                                                                     BLSSU
00000000G 8F
                                       51
                                                                                         ED
1A
                                                                                              00026
                                                             00
                                                                                                                     CMPZV
                                                                                                                                                                                                          1135
                                                                                                                                 #3, #12, COND_NAME, #PAS$$K_MSGCONTHI
                                                                                               0002F
                                                                                                                     BGTRU
                                                                                              00031
                                                                                                                                 ENABLE_ARGS, RO
12(R2), a4(RO)
                                                                                          DO
                                                                                                                                                                                                          1144
                                                                                                                     MOVL
                                                                                          D1
12
                                                      04
                                                             BO
                                                                                                                     CMPL
                                                                                                                     BNEQ
                                                                                                                                                                                                          1155
1156
1157
                                                             62
00
A2
                                                                                                                                 #2, (R2)
#2, #0, #3, COND_NAME
                                                                                                                     SUBL 2
                 51
                                       03
                                                                                                                     INSV
                                                                                                                                 COND NAME, 4(R2)
                                                      04
                                                                                                                     MOVL
                                                                                                                     CLRQ
```

PA:

PASSSFILE_UTIL	File manipulation util	ity procedure or handler fo	s r DO_CLOSE	F 9 16-Sep-198 14-Sep-198	34 01:33:01 34 12:51:29	VAX-11 Bliss-32 V4.0-742 [PASRTL.SRC]PASFILEUT.B32;1	Page 32
	0000000G 0000000G	00 62 00 0B 00 50 0918	52 DD 00 04 FB 00 02 CO 00 7E 7C 00 02 FB 00 03 DD 00 01 FB 00 04 00 8F 3C 00 04 00 50 D4 00	04E 055 058 05A 061 064 066 06D 06F 1\$:	PUSHL R2 CALLS #4 ADDL2 #2 CLRQ -(CALLS #2 BLBS R0 PUSHL #3 CALLS #1 BRB 25	. SYS\$PUTMSG (R2) (SP) 2. SYS\$UNWIND 3. 1\$ 3. PAS\$\$BUGCHECK	1159 1161 1163 1168 1170

; Routine Size: 120 bytes, Routine Base: _PAS\$CODE + 02B0

: 1118 1171 1 : 1119 1172 1 !<BLF/PAGE>

```
PASSSFILE_UTIL
                     File manipulation utility procedures INITIALIZE_QUEUE - Initialize FILE_QUEUE
                                                                                   16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
                                                                                                                  VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32:1
                               *SBTTL 'INITIALIZE_QUEUE - Initialize FILE_QUEUE'
ROUTINE INITIALIZE_QUEUE
: NOVALUE =
FUNCTIONAL DESCRIPTION:
                                          Initializes FILE_QUEUE to be an empty queue.
                                  CALLING SEQUENCE:
                                          INITIALIZE_QUEUE ()
                                  FORMAL PARAMETERS:
                                         NONE
                                  IMPLICIT INPUTS:
                                         FILE QUEUE
QUEUE_INITIALIZED
                                  IMPLICIT OUTPUTS:
                                         FILE QUEUE
QUEUE_INITIALIZED
                                  COMPLETION STATUS:
                                         NONE
                                  SIDE EFFECTS:
                                         Makes FILE_QUEUE an empty queue.
                                  SIGNALLED ERRORS:
                                         NONE
                                    BEGIN
                                    LOCAL
                                          AST_STATUS;
                                                                                             ! Previous AST enable status
                                    BUILTIN TESTBITCS;
                                     ! Disable ASTs.
                                    AST_STATUS = $SETAST (ENBFLG = 0);
                                     If QUEUE_INITIALIZED is still clear, initialize FILE_QUEUE to be an empty queue. Set QUEUE_INITIALIZED.
```

```
H 9
16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
PASSSFILE_UTIL
                                   file manipulation utility procedures INITIALIZE_QUEUE - Initialize FILE_QUEUE
                                                                                                                                                                                                 VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32:1
                                                                                                                                                                                                                                                                                Page
   1178
1179
1180
1181
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1186
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1191
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1196
1197
                                                              IF TESTBITCS (QUEUE_INITIALIZED)
                                                                     BEGIN

FILE_QUEUE [0] = FILE_QUEUE;

FILE_QUEUE [1] = .FILE_QUEUE [0];
                                                                                                                                                              ! Set forward link
! Set backward link
                                                              ! Reenable ASTs if previously enabled.
                                                              IF .AST_STATUS EQL SS$_WASSET
                                                                      $SETAST (ENBFLG = 1):
                                                             RETURN:
                                                             END:
                                                                                                                                                              ! End of routine INITIALIZE_QUEUE
                                                                                                                       000C 00000 INITIALIZE QUEUE:
...WORD Sa
0 9E 00002 MOVAB SY
F 9E 00009 MOVAB FI
E D4 00010 CLRL -C
1 FB 00012 CALLS #1
0 E2 00015 BBSS #0
2 9E 0001A MOVAB FI
2 D0 0001D MOVAB FI
5 12 00021 1$: CMPL AS
5 12 00024 BNEQ 25
1 DD 00026 PUSHL #1
                                                                                                                                                                                  Save R2,R3
SYS$SETAST, R3
FILE QUEUE, R2
-(SP)
                                                                                                                                                                                                                                                                                        1174
                                                                                     53 00000000g
52 00000000°
                                                                                                                    00 F F E 1 0 0 2 2 5 0 5 0 1 0 1
                                                                                                                                                                                                                                                                                        1225
                                                                                                                                                                                  #1, SYS$SETAST
#0, QUEUE INITIALIZED, 1$
FILE QUEUE, FILE QUEUE
FILE QUEUE, FILE QUEUE+4
AST_STATUS, #9
2$
                                                                                     63
62
62
82
09
                                                                                                                                                                                                                                                                                        1232
1235
1236
1243
                                                      07
                                                                          04
                                                                                                                                  0001D
00021 1$:
00024
00026
00028
00028 2$:
                                                                                                                                                                 PUSHL
CALLS
RET
                                                                                                                                                                                                                                                                                        1245
                                                                                                                             DD
                                                                                      63
                                                                                                                                                                                   #1, SYS$SETAST
                                                                                                                                                                                                                                                                                     : 1249
                                                                  Routine Base: _PAS$CODE + 0328
; Routine Size: 44 bytes,
: 1198
: 1199
                                   1250 1
1251 1 !<BLF/PAGE>
```

:

PA:

:

```
PASSSFILE_UTIL
                      File manipulation utility procedures SERVICE_REQUEST - Service remove request
                                                                                            16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
                                                                                                                              VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32:1
                                                                                                                                                                                  Page 35
(13)
                                  %SBTTL 'SERVICE_REQUEST - Service remove request'
ROUTINE SERVICE_REQUEST
: NOVALUE =
                                     FUNCTIONAL DESCRIPTION:
                                              Removes all FCBs from FILE_QUEUE that have DEALLOC set.
                                     CALLING SEQUENCE:
                                             SERVICE_REQUEST ()
                                     FORMAL PARAMETERS:
                                             NONE
                                     IMPLICIT INPUTS:
                                             FILE QUEUE
REQUEST LEVEL
REMOVE REQUESTED
                                     IMPLICIT OUTPUTS:
                                             FILE QUEUE
REQUEST LEVEL
REMOVE_REQUESTED
                                     COMPLETION STATUS:
                                             NONE
                                     SIDE EFFECTS:
                                             Removes FCBs from queue.
                       1289
1290
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1303
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1307
                                     SIGNALLED ERRORS:
                                             NONE
                                        BEGIN
                                        LOCAL
                                             FREE_LIST: REF VECTOR [, LONG];
                                                                                                       ! List of FCBs we deallocated
                                        BUILTIN
                                              REMQUE:
                                        ! Initialize FREE_LIST.
                                        FREE_LIST = 0;
                                        ! +
```

PAS 1-0

...........

```
PASSSFILE_UTIL
                                                                                                                                                                                                                                                       16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
                                                             File manipulation utility procedures SERVICE_REQUEST - Service remove request
                                                                                                                                                                                                                                                                                                                                                  VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32;1
                                                                                                                  Increment REQUEST_LEVEL. If we are at level zero, then we can scan the queue and do REMQUES.
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1
                                                                                                              IF (REQUEST_LEVEL=.REQUEST_LEVEL+1) EQL O
                                                                                                             THEN
                                                                                                                           BEGIN
                                                                                                                                           AST_STATUS, ! Previous AST enable status CURRENT_FCB: REF VECTOR [, LONG]; ! Current FCB to look at
                                                                                                                                 Disable ASTs and remember previous status. This makes us multi-stream AST reentrant.
                                                                                                                            AST_STATUS = $SETAST (ENBFLG = 0);
                                                                                                                             ! Get first FCB on FILE_QUEUE.
                                                                                                                            CURRENT_FCB = .FILE_QUEUE [0]; ! Forward link
                                                                                                                             ! Clear RENOVE_REQUESTED.
                                                               REMOVE_REQUESTED = 0;
                                                                                                                                  While we haven't run out of FCBs, look for FCBs with the DEALLOC bit set, remove them from the queue, and insert them
                                                                                                                                   on the list of blocks to be freed.
                                                                                                                            WHILE (.CURRENT_FCB NEQA FILE_QUEUE) DO ! Back at queue header?
                                                                                                                                           BEGIN
                                                                                                                                                  Allow offset to zero-origin of FCB.
                                                                                                                                          FCB_ORIGIN: REF $PAS$FCB_CONTROL_BLOCK;
FCB_ORIGIN = .CURRENT_FCB + FCB$K_BLN;
IF _FCB_ORIGIN [FCB$V_DEALLOC]
THEN
                                                                                                                                                           BEGIN
                                                                                                                                                        REMQUE (CURRENT_FCB [O], TEMP);
CURRENT_FCB [O] = .FREE_LIST; ! Add FCB to free list
FREE_LIST = .CURRENT_FCB;
END;
                                                                                                                                            ! Get next FCB from the queue.
```

**

```
K 9
16-Sep-1984 01:33:01
14-Sep-1984 12:51:29
PASSSFILE_UTIL
                         File manipulation utility procedures SERVICE_REQUEST - Service remove request
                                                                                                                                               VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32:1
                                                                                                                                                                                                          Page
  1366
1367
1368
1369
1370
1371
1372
                                                          CURRENT_FCB = .CURRENT_FCB [0];
                                                                                                                     ! Forward link
                                                    ! Reenable ASTs if they were previously enabled.
                          IF .AST_STATUS EQL SS$_WASSET
                                                          $SETAST (ENBFLG = 1);
                                                    END:
                                             ! Decrement REQUEST_LEVEL.
                                             REQUEST_LEVEL = .REQUEST_LEVEL - 1;
                                             ! Free all blocks on FREE_LIST.
                                             WHILE (.FREE_LIST NEQA 0) DO
                                                    BEGIN
                                                   LOCAL
                                                   BLOCK_ADDR;
BLOCK_ADDR = .FREE_LIST;
FREE_LIST = .FREE_LIST [0];
PAS$$FREE_VM (PAS$K_FILE_DYN_BLN, BLOCK_ADDR);
                                                   END:
                                             RETURN:
                                             END;
                                                                                                                     ! End of routine SERVICE_REQUEST
                                                                                         003C 00000 SERVICE_REQUEST:
.WORD
MOVAB
                                                                                                                                    Save R2,R3,R4,R5
SYS$SETAST, R5
REQUEST_LEVEL, R4
#4, SP
FREE_LIST
REQUEST_LEVEL
                                                                                                                                                                                                                1253
                                                                   00000000
                                                                                      0F056370AAA51
                                                                                                                        MOVAB
SUBL 2
                                                                                                 00009
                                                                                                 00010
                                                                                                                        CLRL
                                                                                                 00013
                                                                                                                                                                                                                1306
1313
                                                                                                 00015
                                                                                                 00015
00017
00018
0001E
00022
00025
00029
                                                                                                                        BNEQ
                                                                                                                        CLRL
CALLS
MOVL
                                                                                                                                     -(SP)
                                                                                                                                                                                                                1326
                                                                                                                                    #1, SYS$SETAST
FILE QUEUE, CURRENT_FCB
REMOVE REQUESTED
FILE QUEUE, R2
CURRENT_FCB, R2
3$
                                                               65
51
                                                                                                                                                                                                                1332
1338
1346
                                                                                                                        CLRL
                                                                                                                        CMPL
```

BEQL

PA:

PASSSFILE_UTIL	File manipulation SERVICE_REQUEST -	utility Service	procedures remove req	uest		16-Sep-1984 01: 14-Sep-1984 12:	33:01 51:29	VAX-11 Bliss-32 V4.0-742 [PASRTL.SRC]PASFILEUT.B32;1	Page 38 (13)
		FE 52 52 61 53 51 09 65	44	A11131100511436335E	9E1 000 000 11 12 06 10 10 10 10 10 10 10 10 10 10 10 10 10	0002E 00032 00037 0003A 0003D 00040 00040 00045 00045 00045 00046 00046 00047 00047 00051 00053 00055 00058 00058 00050 00	AST 481 #1 #1 REGE 68 FREE 68 FREE	1), FCB_ORIGIN -2(FCB_ORIGIN), 2\$ RENT_FCB), TEMP LIST, (CURRENT_FCB) ENT_FCB, FREE_LIST RENT_FCB), CURRENT_FCB STATUS, #9 SYS\$SETAST EST_LEVEL _LIST LIST, BLOCK_ADDR E_LIST), FREE_LIST	1353 1354 1359 1360 1361 1368 1346 1375 1377 1385 1391
	000000	00G 7E	0138	8F 02 E6	3C FB 11 04	0005B PUSHL 0005D MOVZV 00062 CALLS 00069 BRB 0006B 6\$: RET	L #312 #2, 5\$	PAS\$\$FREE_VM	139

; Routine Size: 108 bytes. Routine Base: _PAS\$CODE + 0354

: 1352 1403 1 : 1353 1404 1 !<BLF/PAGE>

M 9 16-Sep-1984 01:33:01 14-Sep-1984 12:51:29 File manipulation utility procedures SERVICE_REQUEST - Service remove request PASSFILE_UTIL VAX-11 Bliss-32 V4.0-742 [PASRTL.SRC]PASFILEUT.B32;1 Page 39 (14) 1405 1406 1407 1 END ! End of module PAS\$\$FILE_UTIL O ELUDOM PSECT SUMMARY Attributes Name Bytes RD , NOEXE, NOSHR, LCL, RD , EXE, SHR, LCL, NOVEC, WRT, PAS\$DATA REL, CON, PIC, ALIGN(2) REL, CON, PIC, ALIGN(2) _PAS\$CODE Library Statistics ----- Symbols -----Pages Processing File Total Loaded Percent Mapped Time \$255\$DUA28:[SYSLIB]STARLET.L32;1 \$255\$DUA28:[PASRTL.OBJ]PASLIB.L32;1 19 581 00:00.9 COMMAND QUALIFIERS BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$: PASFILEUT/OBJ=OBJ\$: PASFILEUT MSRC\$: PASFILEUT/UPDATE=(ENH\$: PASFILEUT ; Size: 960 code + 20 data bytes ; Run Time: 00:21.6 ; Elapsed Time: 01:09.6 ; Lines/CPU Min: 3915 ; Lexemes/CPU-Min: 16758 ; Memory Used: 102 pages ; Compilation Complete

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